

**Partial Contract concluded on the basis of the Framework Agreement signed on
12 October 2016 with the title:**

**Utilization of foreign experience in the siting process for a deep
geological repository for radioactive waste in the Czech Republic**

between

CONTRACTING PARTIES

Client: **Česká republika – Správa úložišť radioaktivních odpadů**

Registered office: Dlážděná 6, 110 00 Praha 1, Czech Republic

Represented by: JUDr. Jan Prachař, Managing Director

ID: 66000769

Banking details:

Name of Bank: ČNB, Na Příkopě 28, Praha 1

Account No.: 35-64726011/0710

Not a payer of VAT

(hereinafter referred to as the “**Client**”) and

Name of company: **Posiva Oy (lead party) in a consortium with Saanio & Riekkola Oy**

Registered office: Olkiluoto, FI- 27160 Eurajoki, Finland

Represented by: Janne Mokka

ID: 1029258-8,

Tax ID: FI10292588,

Banking details:

Name of Bank: Nordea (NDEAFIHH)

Account No.: FI 281660 3001 1003 98

(hereinafter referred to as the “**Supplier**”)

(hereinafter both referred to as the “**Contractual Parties**”)

The Contractual Parties hereby conclude the following Partial Contract (PC) in accordance with the provisions of Article 5 and in the format of Annex No 4 of the Framework Agreement.

Utilization of foreign experience in the siting process for a deep geological repository for radioactive waste in the Czech Republic

Name of the Partial Contract:	Rock Suitability Classification (RSC)
Area of Services:	iv. the assessment and/or development of specific site characterization methods
ID of Services:	SO2016 –120 - 20

	Function	Name	Date	Signature
Client approved for chapter 1	Project Manager	Xxxxx xxxxxxx	26.7.2021	
Compiled by	Project Manager of the Partial Contract	Xxxxx xxxxxx	26.7.2021	
Partial Contract approved by the Client	Managing Director	Jan Prachař	27.7.2021	
Supplier approved - project manager	Project Manager	Xxxxxxx xxxxx	3.8.2021	
Supplier approved - manager of the partial contract	Project Manager of the Partial Contract	Xxxxxx xxxxxx	13.8.2021	
Partial Contract approved by the Supplier	Sales Director, Posiva Oy	Mika Pohjonen	9.8.2021	
	Vice President, A-Insinöörin Civil Oy	Xxxx xxxxx	11.8.2021	
	Managing Director, Posiva Solutions Oy	Mika Pohjonen	9.8.2021	

Note: This Partial Contract (PC) has been concluded in compliance with the conditions of a Framework Agreement (FA) signed on 12 October 2016 entitled: "Utilization of foreign experience in the siting process for a deep geological repository for radioactive waste in the Czech Republic".

1 CLIENT'S ASSIGNMENT

1.1 Requirements concerning the scope and technical specification

During the construction of the URF Bukov Phase II, SÚRAO plans to focus on the development and testing of a rock "suitability" classification system in the local conditions with implication to site assessment. In addition to geological characteristics, the system will also include geomechanical, hydrogeological, hydrochemical and transport requirements for the properties of the host rock environment. Posiva has created a similar system in the past, so SÚRAO would like to use Posiva's practical experience. The main purpose of the PC is to provide Posiva's experience in the development of the rock suitability classification system, scientific mutual discussion and support for SÚRAO by Posiva. The subject of this PC is related to the PC06 – Site investigation strategy (**List of parameters**), PC14 - Review of SURAO R&D Plan and PC15 – Recommendations for the monitoring and experimental programme accompanying the Bukov URF Phase II excavation process. The activity will be divided into two workpackages:

WP1: Workshop

The WP consists of one 1-day workshop organized between the Client and the Supplier, where Posiva's RSC system development and application will be presented. The Supplier will introduce the RSC classification system, its application during the construction of the DGR and its connection to the main management documents. The data entering the rock suitability classification and the method of their implementation into the system will be presented. In the second part of the workshop the Client will introduce the outcomes from URF Bukov Phase II characterization and its scope of host rock classification system. This part of workshop will be open to SÚRAO's subcontractors.

WP2: Posiva's RSC/system overview – technical report

On the basis of WP1 and SÚRAO document Updating and specification of project for exploratory work on a hypothetical site (HYPL) (representing scale of repository layout and inputs for site specific models – starting data for panel stage), the final technical report will be the subject of this WP. The Supplier shall draw up a draft of a technical report. Part of the report shall focus on Posiva's RSC system and experience from it (management, development, scientific activity). The technical report will also include general guidelines and instructions needed to create a classification system for the rock environment and the pitfalls and uncertainties of this process. Comments and recommendations on SÚRAO approach will also be part of the report. This work includes the checking of the parameters needed in RSC. A draft of the report shall be handed over to SÚRAO's comments, which will subsequently be discussed between the two contractual parties (in one half-a day on-line meeting). The Supplier shall, subsequently, draw up a final version of the technical report and submit it to the Client, who will then append a final statement to it.

The Client nominates the following person as the Project Manager for the Partial Contract (PC): xxxxx xxxxx, e-mail: xxxxxxxxxxxxxxxx The Supplier will communicate directly with this person.

The Client requires the Supplier to nominate those PC participants that will be financed from this Partial Contract.

Changes of persons nominated either by the Client or the Supplier are permitted without the requirement for amending the PC. In case of a change of Project Manager either on the side of the Client or the Supplier, the Project Manager of the one party shall be required to notify his/her counterpart in writing of the change.

1.2 Required Services deadlines

The beginning of the PC is 1.1.2022 and duration of the PC is 7 months. WP 1 will be completed not later than 31.3.2022.

1.3 Estimated labour intensity and/or its limitation

The Client estimates that the work involved in the PC will amount to 380 hours.

Point in the PC	Activities	Estimated labour intensity [hours]
WP1a	Preparation for one 1-day workshop and workshop	125
WP2a	Draft of the technical report and a half a day meeting	165
WP2b	Editing of the technical report	30
WP2c	Final version of technical report	30
1-2	Managing of the PC	30
Total		380

1.4 Specific requirements concerning the organisation of the Services

2 CONFIRMATION / MODIFICATION OF THE ASSIGNMENT OF SERVICES BY THE SUPPLIER

2.1 Scope of the Services and technical specification

The Supplier shall perform the assignment of the Services set out by the Client in Article 1.1.

2.2 Fulfilment dates

The Supplier suggests the time schedule of the Services provided to the Client as stated in Article 1.2.

2.3 Price of the Partial Contract

The Supplier states herein the price limit of the Partial Contract which is based on the labour intensity determined in accordance with Article 2.5 of this document and the rates specified in Article 4.3 of the FA. Based on the preliminary allocation of working hours to the various experts and their hourly rates, the price estimate (exclusive of travel costs) is set at 57 173 €. The Supplier shall be required to justify all the expenses incurred. As a minimum, consultation at the Client's premises will incur travelling expenses.

2.4 Organisation of the Services

The Supplier shall set out the various activities corresponding to the work schedule, the persons involved in those activities and their roles in Table 1. When determining labour intensity, the Supplier shall take into account the limit set by the Client in Article 1.3 of the Partial Contract (380 hours).

The Supplier shall set out the organisation and accountability of the persons involved in the Partial Contract in Table 1. Estimated hours per category are listed in Table 2.

Table 1. Personnel and roles in the activities set out in the Partial Contract.

Name	Role/position	Knowledge areas relevant to this PC
Xxxxx xxxxxxx	Adviser	Rock Suitability Classification, investigations, modelling
Xxxxx xxxxxxx	Adviser	Rock Suitability Classification, investigations, modelling
Xxxxxx xxxxxxx	Adviser	Rock Suitability Classification, safety case, Project Management of PC
Xxxxx xxxxxxxx	Senior Expert	Rock Suitability Classification, investigations, geophysics
Xxxx xxxxxxx	Project Engineer	Rock Suitability Classification, investigations, hydrogeology
Xxxxxxxx xxxxx	Adviser	Project management of FA

Table 2: Personnel hours by category

Category	Hours	%	Cost
Cat 2	360	94	55087
Cat 3	10	2,5	1246
Cat 4	10	2,5	840
TOTAL	380	100	57173

3 CONCLUSION OF THE PARTIAL CONTRACT

The Articles 1 and 2 of this Partial Contract are valid in full.

The Partial Contract will be concluded in line with Article 5 of the FA.

This Partial Contract comes into force on the date it is signed by both Contracting Parties and comes into effect 1.1.2022